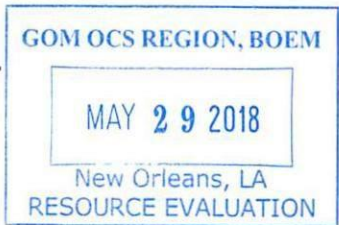


# PUBLIC

Attachment 1

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF OCEAN ENERGY MANAGEMENT



Atlantic OCS Region

(Insert Appropriate Regional Office)

APPLICATION FOR PERMIT TO CONDUCT GEOLOGICAL OR GEOPHYSICAL  
EXPLORATION FOR MINERAL RESOURCES OR SCIENTIFIC RESEARCH ON  
THE OUTER CONTINENTAL SHELF

(Section 11, Outer Continental Shelf Lands Act of August 7, 1953, as amended on September 18, 1978, by Public Law 95-372, 92 Statute 629, 43 U.S.C. 1340; and 30 CFR Parts 551 and 251)

TDI Brooks International, Inc.

Name of Applicant

14391 South Dowling Road

Number and Street

College Station, TX 77845

City, State, and Zip Code

Application is made for the following activity: (check one)

- Geological exploration for mineral resources  
 Geological scientific research  
 Geophysical exploration for mineral resources  
 Geophysical scientific research

**Submit:** Original plus three copies, totaling four copies, which include one digital copy, and one public information copy.

=====

To be completed by BOEM

Permit Number:

E18-002

Date:

29-May-2018

**A. General Information**

1. The activity will be conducted by:

TDI-Brooks International, Inc.

For TGS

\_\_\_\_\_  
Service Company Name  
14391 S Dowling Rd  
\_\_\_\_\_  
Address  
College Station, TX 77845  
\_\_\_\_\_  
City, State, Zip  
979-693-3446  
\_\_\_\_\_  
Telephone/FAX Numbers  
drjmbrooks@aol.com  
\_\_\_\_\_  
E-Mail Address

\_\_\_\_\_  
Purchaser(s) of the Data  
10451 Clay Road  
\_\_\_\_\_  
Address  
Houston, TX 77041  
\_\_\_\_\_  
City, State, Zip  
713-860-2100  
\_\_\_\_\_  
Telephone/FAX Numbers  
asif.ali@tgs.com  
\_\_\_\_\_  
E-Mail Address

2. The purpose of the activity is:  Mineral exploration  
 Scientific research

3. Describe your proposed survey activities (i.e., vessel use, benthic impacts, acoustic sources, etc.) and describe the environmental effects of the proposed activity, including potential adverse effects on marine life. Describe what steps are planned to minimize these adverse effects (mitigation measures). For example: 1) Potential Effect: Excessive sound level Mitigation; Soft Start, Protected Species Observers (PSO's), mammal exclusion zone or 2) Potential Effect: Bottom disturbance; Mitigation: ROV deployment/retrieval of bottom nodes) (use continuation sheets as necessary or provide a separate attachment):

Acquisition of 6m and 18m piston cores and heat flow measurements for stratigraphic / geologic studies and basin modelling. No adverse impacts.

4. The expected commencement date is: September 2018

The expected completion date is: December 2018

5. The name of the individual(s) in charge of the field operation is:

Dr. Peter Hitchcock

May be contacted at:

TDI-Brooks International, Inc.

Telephone (Local) 979-693-3446 (Marine) 979-314-4369

Email Address: peterhitchcock@tdi-bi.com

6. The vessel(s) to be used in the operation is (are):

| Vessel Name (s)  | Registry Number(s) | Radio Call Sign(s) | Registered Owner(s) |
|------------------|--------------------|--------------------|---------------------|
| RV Brooks McCall | 338257000          | WCZ7811            | OMA McCall Inc      |
| _____            | _____              | _____              | _____               |
| _____            | _____              | _____              | _____               |

7. The port from which the vessel(s) will operate is: \_\_\_\_\_

8. Briefly describe the navigation system (vessel navigation only):

Furuno GPS / heading system

\_\_\_\_\_

\_\_\_\_\_

**B. Complete for Geological Exploration for Mineral Resources or Geological Scientific Research**

1. The type of operation(s) to be employed is: (check one)

- a. \_\_\_\_\_ Deep stratigraphic test, or
- b. \_\_\_\_\_ Shallow stratigraphic test with proposed total depth of \_\_\_\_\_, or
- c.  Other piston coring and surface heat flow measurements

2. Attach a page-size plat showing: 1) The generalized proposed location for each test, where appropriate, a polygon enclosing the test sites may be used, 2) BOEM protraction areas; coastline; point of reference; 3) Distance and direction from a point of reference to area of Activity; 4) Label as "**Public Information.**"

See attached figure

\_\_\_\_\_

**C. Complete for Geophysical Exploration for Mineral Resources or Geophysical Scientific Research**

1. The proposed operation: \_\_\_\_\_

- a. Acquisition method (OBN, OBC, Streamer): \_\_\_\_\_
  - b. Type of acquisition: (High Resolution Seismic, 2D Seismic, 3D Seismic, gravity, magnetic, CSEM, etc.)
- \_\_\_\_\_
- \_\_\_\_\_

2. Attach a page-size plat showing:

- a. The generalized proposed location of the activity with a representative polygon,
- b. BOEM protraction areas; coastline; point of reference,
- c. Distance and direction from a point of reference to area of activity, and
- d. Label as "**Public Information.**"

3. List all energy source types to be used in the operation(s): (Air gun, air gun array(s), sub-bottom profiler, sparker, towed dipole, side scan sonar, etc.).

4. Explosive charges will \_\_\_ will not \_\_\_ be used. If applicable, indicate the type of Explosive and maximum charge size (in pounds) to be used: \_\_\_\_\_

Type \_\_\_\_\_ Pounds \_\_\_\_\_ Equivalent Pounds of TNT \_\_\_\_\_

#### D. Proprietary Information Attachments

Use the appropriate form on page 9 for a "geological" permit application or the form on page 11 for a "geophysical" permit application. You must submit a separate Form BOEM-0327 to apply for each geological or geophysical permit.

#### E. Certification

I hereby certify that foregoing and attached information are true and correct.

Print Name: Dr. James M. Brooks

SIGNED *Jim Brooks* DATE 05-23-18

TITLE President, CEO

COMPANY NAME: TDI-Brooks International, Inc.

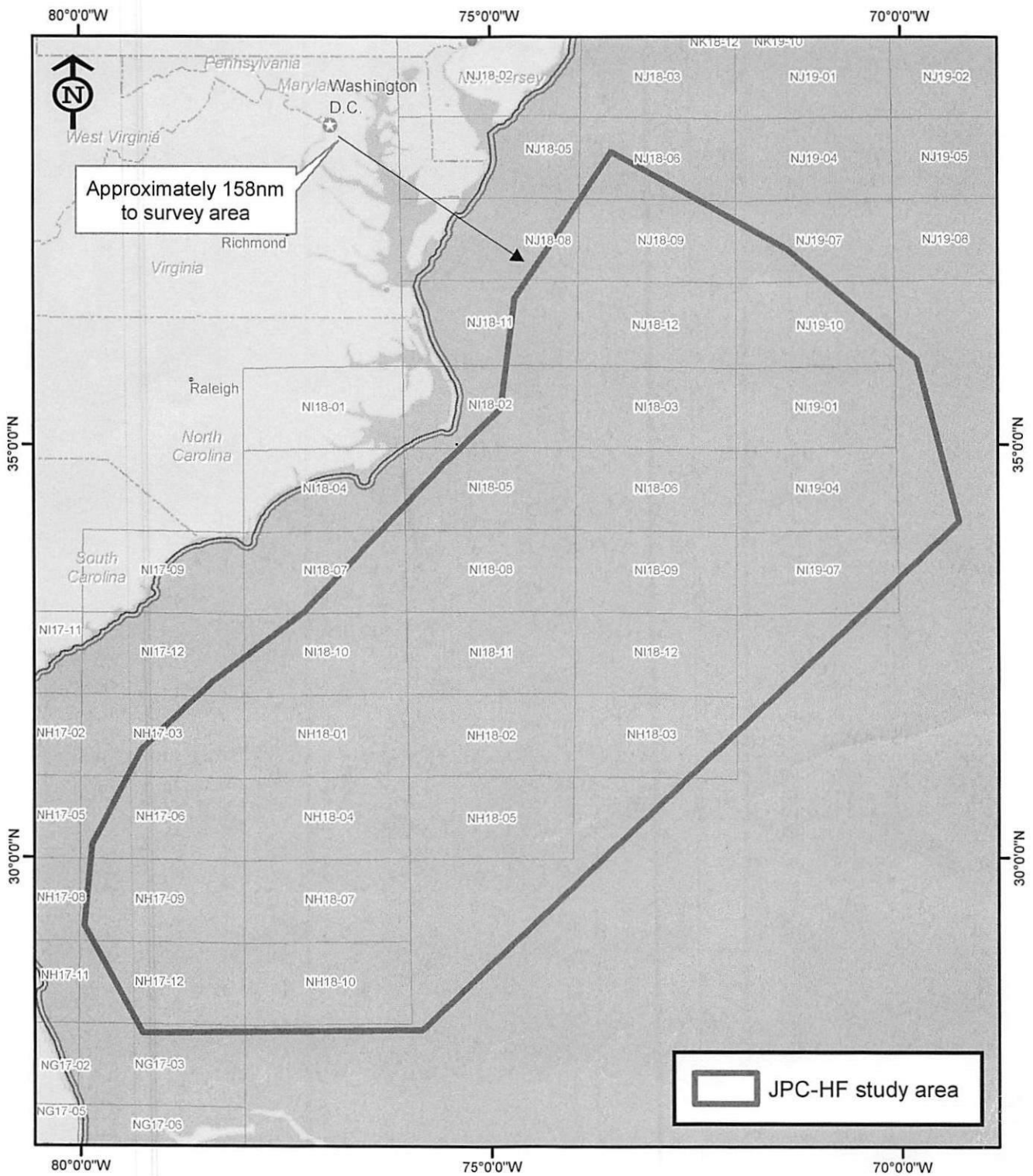
#### TO BE COMPLETED BY BOEM

Permit No. E18-002 Assigned by *Tessie C. Campbell* Date 24 Jul 2018  
of BOEM

This application is hereby:

- a.  Accepted  
b.  Returned for reasons in the attached

SIGNED *D. A. K. Magy* TITLE *DM* Regional Supervisor DATE 7/24/18



TDI-Brooks International, Inc.  
 East Coast Coring-HF  
 JPC-HF targets  
 Public Information Copy  
 BOEM-0327  
 05/23/18

